

पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरसिस्टम की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)



उत्तरी क्षेत्रीय भार प्रेषण केंद्र

Power Supply Position in Northern Region for 26.09.2013
Date of Reporting : 27.09.2013

I. Regional Availability/Demand:

Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
38964	2255	41219	50.15	34569	750	35319	50.18	861.8	36.69

* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages* (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	46.01	19.39		65.40	90.22	93.16	2.95	158.56	0.00
Haryana	59.04	0.59		59.64	71.85	71.93	0.08	131.56	0.03
Rajasthan	74.30	8.06	9.52	91.88	61.55	52.34	-9.21	144.22	0.00
Delhi	24.02			24.02	69.93	68.89	-1.03	92.91	0.07
UP	111.95	4.60	1.70	118.25	126.94	121.68	-5.27	239.92	33.00
Uttarakhand		18.28		18.28	12.09	14.17	2.08	32.45	1.89
HP		17.01		17.01	7.05	7.92	0.87	24.93	0.00
J & K		13.61	0.00	13.61	17.07	18.43	1.36	32.04	1.70
Chandigarh				0.00	5.00	5.16	0.15	5.16	0.00
Total	315.32	81.54	11.22	408.08	461.70	453.68	-8.02	861.76	36.69

* Shortage furnished by the respective constituent.\$ Others include UP Co-generation and JK Diesel

II. B. State's Demand Met in MWs:

State	Evening Peak (20:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy MU
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction	
Punjab	7403	0	194	1034	6233	0	-4	1206	26.33
Haryana	6057	0	-267	269	5248	0	135	151	-3.70
Rajasthan	6940	0	-223	639	5581	0	-420	589	13.60
Delhi	4224	0	-43	-122	3476	0	-35	-512	-5.56
UP	9915	1930	-489	1502	10602	750	-82	2160	41.97
Uttarakhand	1405	225	137	15	1293	0	83	37	1.94
HP	1159	0	68	-948	880	0	57	-632	-12.76
J&K	1612	100	87	-82	1087	0	-4	-275	-2.40
Chandigarh	250	0	5	-10	169	0	6	0	0.29
Total	38964	2255	-530	2298	34569	750	-264	2725	59.72

* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Entity	Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW (Gross)	Off Peak MW (Gross)	Energy (Net MU)	Average Sentout(MW)	Schedule Net MU	UI Net MU	
										UI (OG:(+ve), UG: (-ve))
A. NTPC	Singrauli STPS	2000	1893	2081	2010	45.55	1898	45.44	0.11	
	Rihand I STPS	1000	920	985	951	20.38	849	20.58	-0.20	
	Rihand II STPS	1000	477	476	512	10.75	448	10.90	-0.15	
	Rihand III STPS	500	485	512	493	10.92	455	11.16	-0.23	
	Dadri I STPS	840	600	638	509	12.84	535	13.12	-0.28	
	Dadri II STPS	980	975	980	929	21.70	904	22.12	-0.41	
	Unchahar I TPS	420	402	438	424	9.00	375	9.12	-0.12	
	Unchahar II TPS	420	403	439	327	8.39	349	8.62	-0.23	
	Unchahar III TPS	210	199	217	165	4.13	172	4.17	-0.04	
	ISTPP (Jhajjar)	1500	1480	771	632	15.10	629	15.50	-0.40	
	Dadri GPS	830	796	574	591	13.42	559	13.45	-0.04	
	Anta GPS	419	399	246	256	5.98	249	6.05	-0.07	
	Auraiya GPS	663	625	153	154	3.58	149	3.60	-0.02	
	Sub Total (A)	10782	9652	8510	7953	181.73	7572	183.81	-2.08	
	B. NPC	NAPS	440	296	330	340	7.10	296	7.10	0.00
		RAPS- B	440	266	440	142	6.94	289	6.37	0.56
		RAPS- C	440	412	461	467	9.91	413	9.89	0.03
Sub Total (B)		1320	973	1231	949	23.95	998	23.36	0.58	
C. NHPC	Chamera I HPS	540	536	540	360	5.53	231	5.50	0.03	
	Chamera II HPS	300	300	300	100	4.04	168	4.03	0.01	
	Chamera III HPS	231	231	226	150	2.73	114	2.80	-0.07	
	Bairasuil HPS	180	182	120	30	1.32	55	1.44	-0.12	
	Salal-HPS	690	425	646	296	10.00	417	10.09	-0.09	
	Tanakpur-HPS	94	94	93	92	2.20	92	2.20	-0.01	
	Uri-HPS	480	267	316	248	5.95	248	6.14	-0.18	
	Dhauliganga-HPS	280	0	0	0	0.00	0	0.00	0.00	
	Dulhasti-HPS	390	269	268	0	6.03	251	6.04	-0.01	
	Sewa-II HPS	120	119	123	0	0.77	32	0.79	-0.02	
	Sub Total (C)	3305	2422	2632	1276	38.58	1607	39.03	-0.46	
D. NJPC	Nathpa Jhakri	1500	1605	1606	914	23.44	977	23.42	0.02	
	Sub Total (D)	1500	1605	1606	914	23.44	977	23.42	0.02	
E. THDC	Tehri HPS	1000	1060	466	234	6.87	286	6.70	0.17	
	Koteshwar HPS	400	100	101	100	2.42	101	2.40	0.02	
	Sub Total (E)	1400	1160	567	334	9.29	387	9.10	0.19	
F. BBMB	Bhakra HPS	1497	870	1355	824	21.42	893	20.87	0.55	
	Dehar HPS	990	438	660	460	11.03	460	10.52	0.51	
	Pong HPS	396	283	372	186	7.04	293	6.80	0.24	
	Sub Total (F)	2883	1591	2387	1470	39.49	1645	38.19	1.30	
G. IPP(s)/JV(s)	ADHPL HPS(IPP)	192	0	135	48	1.66	69	1.61	0.05	
	KWHEP HPS(IPP)	1000	0	899	430	12.58	524	12.96	-0.37	
	Malana Stg-II HPS	100	0	108	35	1.03	43	0.96	0.07	
	Shree Cement TPS	300	0	268	239	6.21	259	6.24	-0.03	
	Budhil HPS(IPP)	70	0	69	26	0.88	37	0.86	0.02	
	Sub Total (G)	1662	0	1479	778	22.35	931	22.62	-0.27	
H. Total Regional Entities (A-G)	22852	17405	18412	13674	338.82	14118	339.53	-0.71		

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sent out MW)
Punjab	Guru Gobind Singh TPS (Ropar)	1260	1260	1050	25.07	1045
	Guru Nanak Dev TPS(Bhatinda)	440	338	230	5.84	243
	Guru Hargobind Singh TPS(L.mbt)	920	682	684	15.10	629
	Goindwal(GVK)		0	0	0.00	0
	Thermal (Total)	2620	2280	1964	46.01	1917
	Total Hydro	1148	871	685	19.39	808
Total Punjab		3768	3151	2649	65.40	2725
Haryana	Panipat TPS	1367	435	420	10.16	423
	DCRTPP (Yamuna nagar)	600	284	262	6.17	257
	Faridabad GPS (NTPC)	432	313	283	7.20	300
	RGTPP (khedar) (IPP)	1200	561	421	11.90	496
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar(CLP)	1320	1048	703	23.61	984
	Thermal (Total)	4944	2641	2089	59.04	2460
	Total Hydro	62	13	16	0.59	25
	Total Haryana	5006	2654	2105	59.64	2485
	Rajasthan	kota TPS	1240	899	871	21.56
suratgarh TPS		1500	761	772	18.90	788
Chabra TPS		500	387	193	9.03	376
Dholpur GPS		330	67	91	1.79	75
Ramgarh GPS		111	55	57	1.49	62
RAPS A (NPC)		300	168	168	4.01	167
Barsingsar (NLC)		250	176	77	3.34	139
Giral LTPS		250	0	0	0.00	0
Rajwest LTPS (IPP)		1080	573	846	14.17	591
VSLP LTPS (IPP)		135	0	0	0.00	0
Kalisindh Thermal		600	0	0	0.00	0
Kawai(Adani)		660	0	0	0.00	0
Thermal (Total)		6956	3086	3075	74.30	3096
Total Hydro		550	348	305	8.06	336
Wind power		2191	630	130	8.55	356
Biomass		91	33	33	0.80	33
Solar		201	0	0	0.18	7
Renewable/Others (Total)		2483	663	163	9.52	397
Total Rajasthan		9989	4097	3543	91.88	3829
UP		Anpara TPS	1630	1321	1336	28.90
	Obra TPS	1288	459	465	10.00	417
	Paricha TPS	1140	511	575	11.70	488
	Panki TPS	210	155	160	3.40	142
	Harduaganj TPS	665	428	434	9.30	388
	Tanda TPS (NTPC)	440	296	191	6.70	279
	Roza TPS (IPP)	1200	797	738	17.04	710
	Anpara-C (IPP)	1200	805	808	18.42	768
	Bajaj Energy Pvt.Ltd(IPP) TPS	450	257	257	6.49	270
	Thermal (Total)	8223	5029	4964	111.95	4665
	Vishnuparyag HPS (IPP)	400	0	0	0.00	0
	Other Hydro	527	165	195	4.60	192
	Cogeneration	981	70	70	1.70	71
	Total UP	10131	5264	5229	118.25	4927
	Uttarakhand	Total Hydro	1303	773	763	18.28
Total Uttarakhand		1303	773	763	18.28	762
Delhi	Rajghat TPS	135	43	77	1.41	59
	Delhi Gas Turbine	282	157	159	3.75	156
	Pragati Gas Turbine	330	296	262	6.83	285
	Riithala GPS	95	0	0	0.00	0
	Bawana GPS	686	0	0	0.00	0
	Badarpur TPS (NTPC)	705	580	490	12.02	501
	Thermal (Total)	2232	1076	988	24.02	1001
Total Delhi	2232	1076	988	24.02	1001	
HP	Baspa HPS (IPP)	330	218	89	4.29	179
	Malana HPS (IPP)	86	67	44	1.05	44
	Other Hydro	589	505	463	11.67	486
	Total HP	1005	790	596	17.01	709
J & K	Baglihar HPS (IPP)	450	438	436	10.47	436
	Other Hydro	323	126	128	3.14	131
	Gas/Diesel/Others	183	0	0	0.00	0
	Total J & K	956	564	564	13.61	567
Total State Control Area Generation		34390	18369	16437	408.08	17003
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]			4388	5504	122.26	5094
Total Regional Availability(Gross)		57242	41169	35615	869.16	36215

IV. Total Hydro Generation:

Regional Entities Hydro	10380	8334	4507	126.06	5253
State Control Area Hydro	5368	3524	3124	81.54	3397
Total Regional Hydro	15748	11858	7631	207.60	8650

V(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]

Element	Peak(20:00 Hrs)	Off Peak(03:00 Hrs)	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
	MW	MW	Import	Export	Import	Export	
Vindhychal B/B	200	500	500	0	9.14	0.00	9.14
Gwalior-Agra (D/C)	1168	1586	1715	0	33.97	0.00	33.97
Zerda-Kankroli	-45	19	100	136	0.00	0.76	-0.76
Zerda-Bhinmal	-33	61	151	146	0.15	0.00	0.15
Malanpur-Auraiya	-61	-30	0	85	0.00	0.85	-0.85
Badod-Kota/Morak	-73	-1	31	121	0.00	1.14	-1.14
Mundra-Mohindergarh(HVDC)	1429	1432	1436	0	34.99	0.00	34.99
Sub Total WR	2585	3567			78.25	2.75	75.50
Pusauli Bypass	250	-92	250	92	2.32	0.73	1.59
MZP- GKP (D/C)	452	587	831	0	14.50	0.00	14.50
Patna-Balia(D/C)	585	661	728	0	14.85	0.00	14.85
B'Sharif-Balia (D/C)	391	492	624	0	10.51	0.00	10.51
Pusauli-Balia	-5	79	79	10	0.95	0.00	0.95
Gaya-Fatehpur (765 Kv)	28	80	178	4	1.66	0.00	1.66
Pusauli-Sahupuri	139	166	169	0	3.57	0.00	3.57
K'nasa-Sahupuri	0	0	0	0	0.00	0.00	0.00
Son Ngr-Rihand	-37	-36	0	37	0.00	0.87	-0.87
Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
Sasaram - Fatehpur(765 KV)	0	0	0	0	0.00	0.00	0.00
Sub Total ER	1803	1937			48.36	1.60	46.76
Total IR Exch	4388	5504			126.61	4.35	122.26

V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]

ER	ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
37.92	2.41	40.33	1.37	-1.69	13.42	26.57	4.10	-4.10

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER	Through WR	Total	Through ER	Through WR	Total
59.21	79.81	139.02	46.76	75.50	122.26	-12.46	-4.31	-16.76

VI. Frequency Profile <----- % of Time Frequency ----->

<48.80	<49.0	<49.20	<49.50	<49.7	49.5 - 50.2	49.7-49.8	49.7 - 50.2	> 50.00	> 50.2
0.00	0.00	0.00	0.00	0.60	87.50	0.90	86.90	68.20	12.50

<----- Frequency (Hz) ----->				Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block	
Maximum		Minimum					MAX	MIN
Freq	Time	Freq	Time	Hz	(Hz)	(Hz)		
50.44	8.03	49.56	18.52	50.06	0.18	0.12	50.32	49.91

VII. Voltage profile 400 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Rihand	400	409	13:00	401	00:47	0.0	0.0	0.0	0.0
Gorakhpur	400	422	08:03	408	01:36	0.0	0.0	0.3	0.0
Bareilly	400	421	08:03	402	14:26	0.0	0.0	0.0	0.0
Kanpur	400	422	08:02	406	18:50	0.0	0.0	0.7	0.0
Dadri	400	418	07:50	402	11:21	0.0	0.0	0.0	0.0
Ballabgarh	400	426	04:03	408	12:15	0.0	0.0	22.0	0.0
Bawana	400	424	08:02	406	11:22	0.0	0.0	14.0	0.0
Bassi	400	433	03:31	410	18:50	0.0	0.0	43.9	1.7
Hissar	400	413	04:03	393	12:26	0.0	0.0	0.0	0.0
Moga	400	412	03:49	395	18:52	0.0	0.0	0.0	0.0
Abdullapur	400	0	00:00	9999	00:00	0.0	0.0	0.0	0.0
Nalagarh	400	416	03:40	400	11:23	0.0	0.0	0.0	0.0
Kishenpur	400	421	02:39	399	18:52	0.0	0.0	0.3	0.0
Wagoora	400	419	02:41	380	19:05	0.0	3.3	0.0	0.0

VIII. Voltage profile 765 kV

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV
Fatehpur	765	770	08:02	741	19:31	0.0	0.1	0.0	0.0
Balia	765	760	08:03	731	12:28	0.0	50.2	0.0	0.0
Moga	765	784	04:02	751	14:17	0.0	0.0	0.0	0.0
Agra	765	815	08:02	754	18:10	0.0	0.0	20.5	0.0
Bhiwani	765	801	03:31	768	14:17	0.0	0.0	1.8	0.0
Unnao	765	761	00:00	752	14:03	0.0	0.0	0.0	0.0

IX. Reservoir Parameters:

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m ³ /s)	Usage (m ³ /s)
Bhakra	513.59	445.62	511.35	1620.46	505.24	1325.82	548.98	664.71
Pong	426.72	384.05	423.20	1035.89	422.54	1005.78	165.89	485.01
Tehri	829.79	740.04	823.70	1080.00	818.65	982.26	158.70	138.00
Koteshwar	612.50	598.50	608.20	4.96	NA	NA	138.00	158.00
Chamera-I	760.00	748.75	NA	NA	NA	NA	148.26	150.02
Rihand	268.22	252.98	260.79	348.70	264.20	558.40	NA	NA
RPS	352.80	343.81	NA	NA	NA	NA	NA	NA
Jawahar Sagar	298.70	295.78	NA	NA	NA	NA	NA	NA
RSD	527.91	487.91	519.31	144.00	520.82	144.00	192.24	241.29

* NA: Not Available

X. System Constraints:

XI. Grid Disturbance / Any Other Significant Event:

XII. Weather Conditions For 26.09.2013 :

1.Normal weather in NR.

XIII. Synchronisation of new generating units :

XIV. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus //substation :

1: 400kV Wagoora- new Wanpoh and 400kV Kisenpur- new Wanpoh line charged at 20.01 hrs & 20.48 hrs of dt 26.09.2013 repectively after LILLO of 400kV Kisenpur -Wagoora ckt-2 at new Wanpoh PG sub station.

XV. Tripping of lines in pooling stations :

XVI. Complete generation loss in a generating station :

Vishnuprayag (400MW) and Dhauliganga (280MW) are out of operation since 16.06.2013.
Civil construction is in progress for rectification of the major damages in Plants/Dam caused due to flood
Vishnuprayag and Dhauliganga expected by Dec, 2013 .